

Crystal Ball questions on making salts

All of the following questions have not (as yet!) appeared in the NCEA Level 1 Exams

1) A student reacted sulfuric acid with copper oxide to produce the salt, copper sulfate.



The equation contains some errors.

- a) Rewrite the equation so that it is a correctly balanced chemical equation.
- b) Discuss the reasons for the changes made to correctly balance the chemical equation.

2) Discuss in detail how to make zinc sulfate in the laboratory

3) Discuss in detail the effects of rainwater (carbonic acid, H_2CO_3) on the limestone (CaCO_3) caves at Waitomo.

4) Discuss the reaction between hydrochloric acid and calcium carbonate in detail